

Application No. 10/077,086
Response to Office Action

Customer No. 01933

Listing of Claims:

1. (Currently Amended) A temperature measuring device consisting of a single wedge shaped casing arranged within an airflow flowing into an engine of an aircraft or on an external surface of an airframe of the aircraft,

5 wherein a temperature sensor is provided in said single wedge shaped casing;

 wherein the temperature measuring device measures a total temperature T1 of the airflow based on a measured temperature T of the airflow flowing over surfaces of the casing, and

10 wherein (i) an angle of inclination of each blade surface of the casing with respect to a direction of a line of flow of the airflow, (ii) a width of a leading edge section of the casing with respect to the direction of the line of flow of the airflow, and (iii) an angle of inclination of the leading edge section of
15 the casing with respect to the direction of the line of flow of the airflow are set such that lumps of ice and snow, which may form on the surfaces of the casing and which may detach from the casing and be blown downstream by the airflow into the engine, the airframe or other equipment of the aircraft, detach at a
20 stage of growth so as to prevent damage to the engine, the airframe or the other equipment of the aircraft.

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2. (Previously Presented) A temperature measuring device according to claim 1, wherein the angle of inclination of each blade surface of the casing with respect to the direction of the line of flow of the airflow is less than or equal to 9° .

3. (Previously Presented) A temperature measuring device according to claim 1, wherein a width of a leading edge section of the casing with respect to the direction of the line of flow of the airflow is less than or equal to 1 mm.

4. (Previously Presented) A temperature measuring device according to claim 1, wherein a width of a leading edge section of the casing with respect to the direction of the line of flow of the airflow is less than or equal to 0.5 mm.

5. (Previously Presented) A temperature measuring device according to claim 1, wherein an angle of inclination of a leading edge section of the casing with respect to the direction of the line of flow of the airflow is less than 60° .

Claims 6-12 (Canceled).